

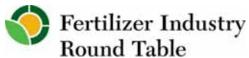


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Natural Gas Outlook









North American Natural Gas The Fertilizer Institute

November, 2014

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Talking points





- This summer saved us storage at unforeseen levels could pressure near term price outlook
- North American production growth continues to shape market; breaking traditional flow patterns and pricing relationships
- Drilling economics favor wet plays with NGLs or Oil over dry Natural Gas plays.
- US production growth is very focused on the Utica and Marcellus plays in the Northeast.
- Gas fired power generation demand rises while industrial demand growth increases especially in the Gulf Coast.
- New North American gas production exceeds domestic demand growth in forecast; exports (LNG + Mexico) required to balance market

Filled storage just in time for winter.....



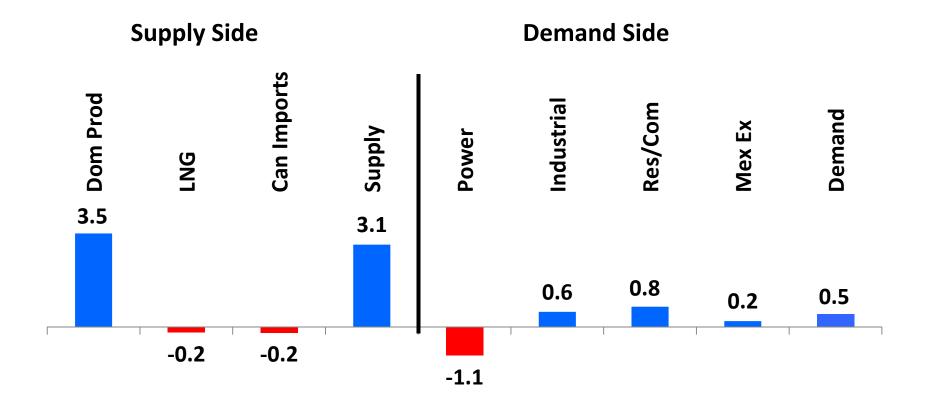




2014 summer vs. 2013 summer







Summer 2014: 2.6 Bcf/d Long Versus Summer 2013

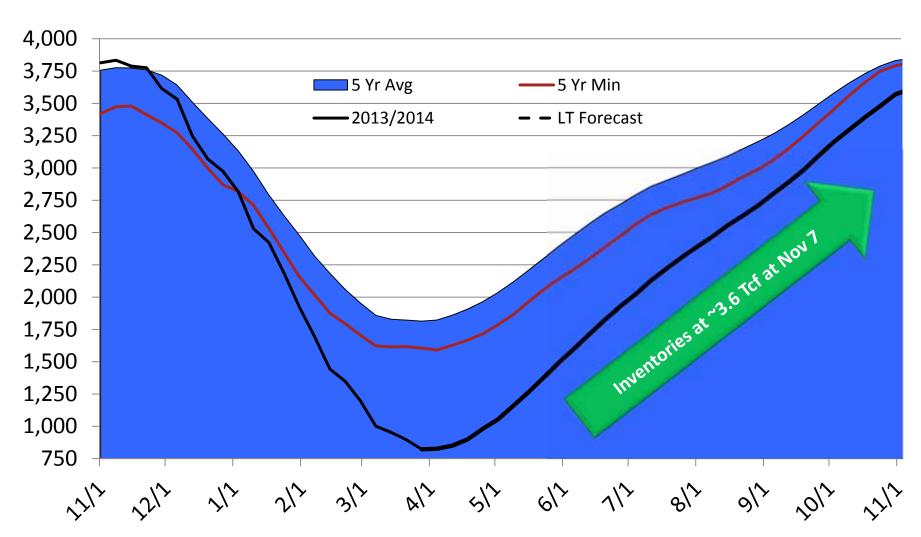
Source: BENTEK Supply & Demand Report

Storage inventory carry-out within ~200 Bcf of the 5 year average





US Storage Inventories (Bcf)

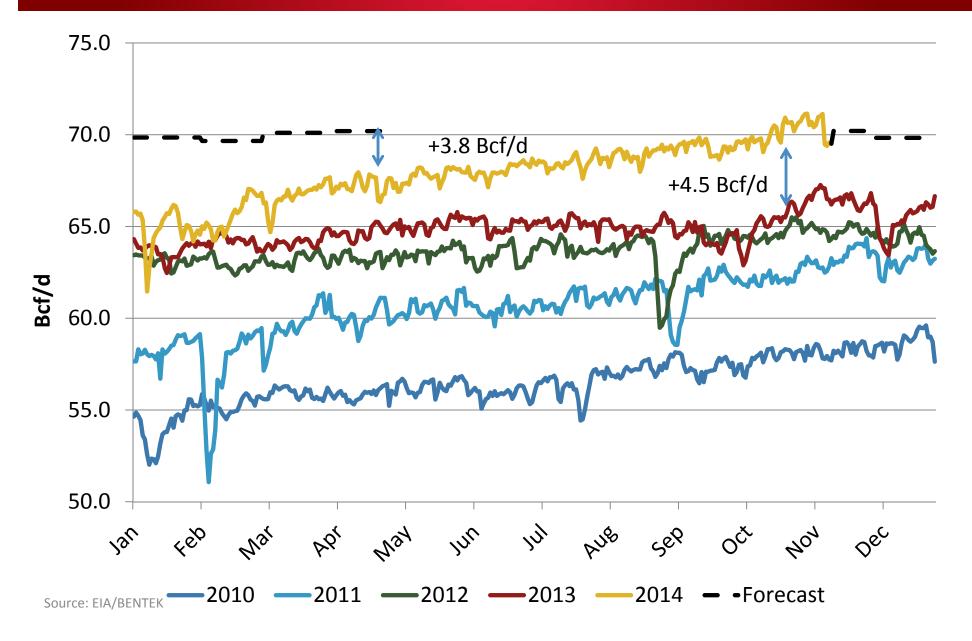


Source: EIA/BENTEK Market Call Short Term

YTD - production continues to boom – Since August YOY is up 4.5 Bcf/d – Forecast tend to continue





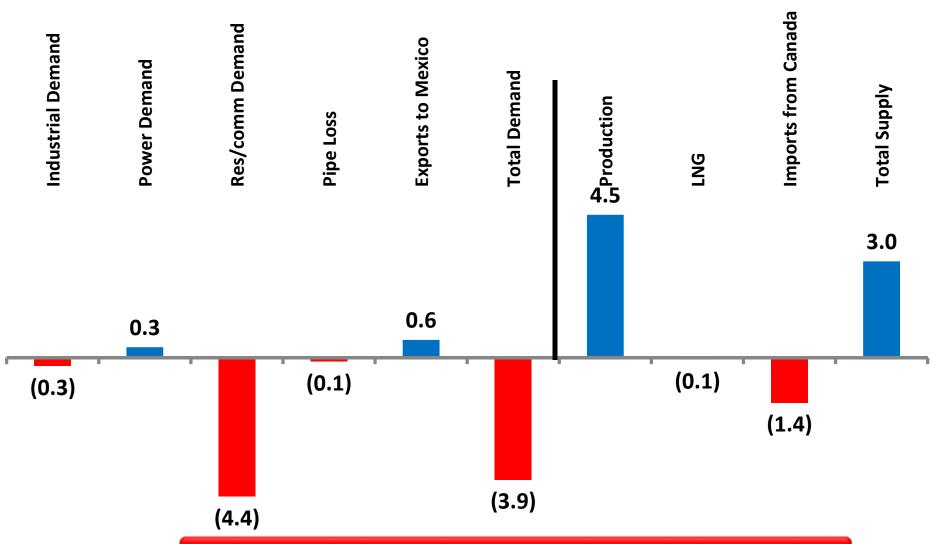


Winter-over-winter outlook





Winter 13-14 vs. Winter 14-15 (Bcf/d)

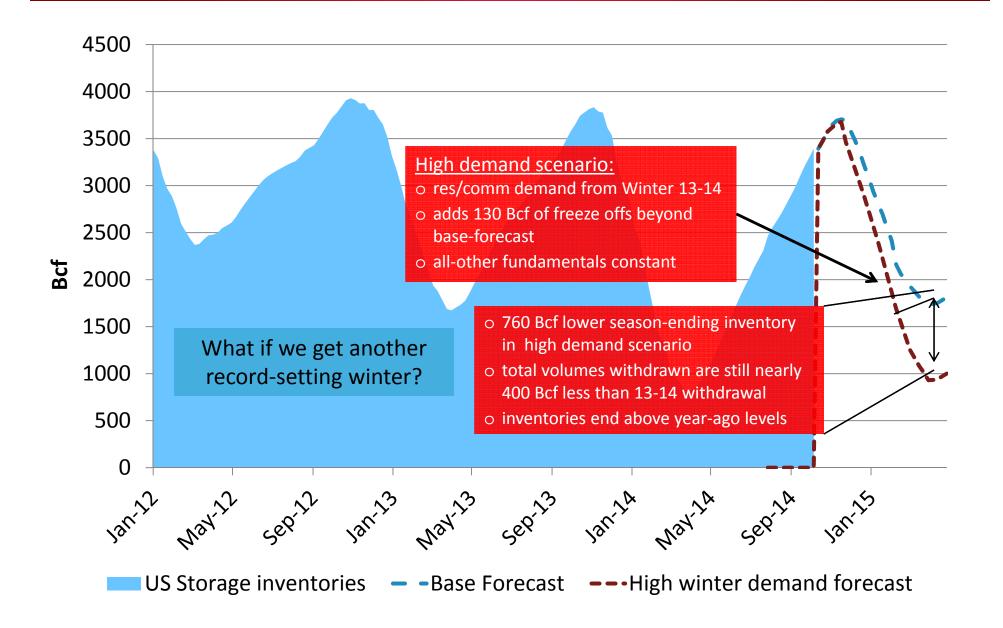


US looks to be net-long 6.9 Bcf/d winter-over-winter

Production Growth Trumps High-Demand Case







Long Term Outlook





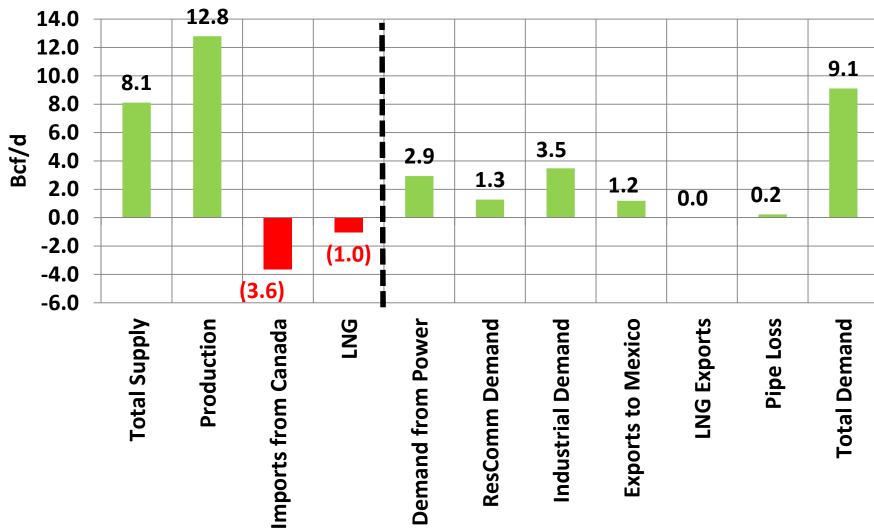


To date displaced imports coupled with increased domestic demand have balanced US NG growth





2009-2014 Fundamentals



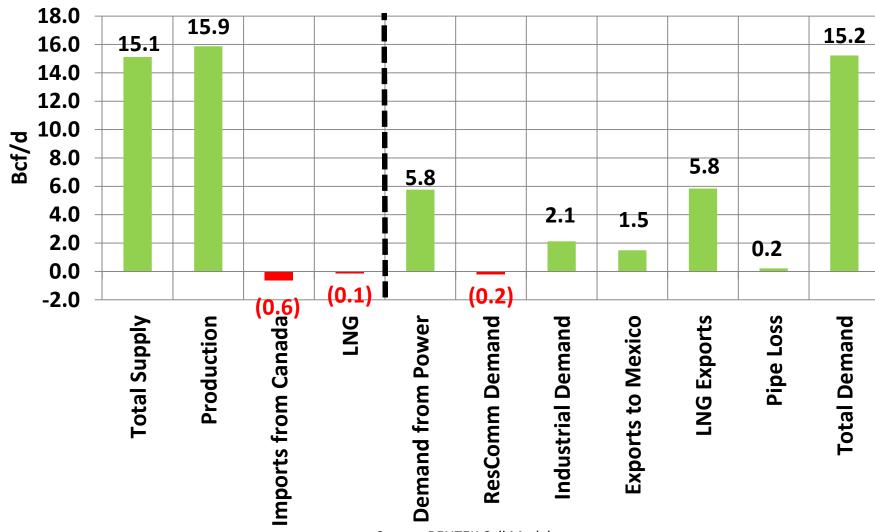
Source: BENTEK Cell Model

Going forward, power burn and exports are key balancing items to lower 48 NG growth





2014-2019 Fundamentals

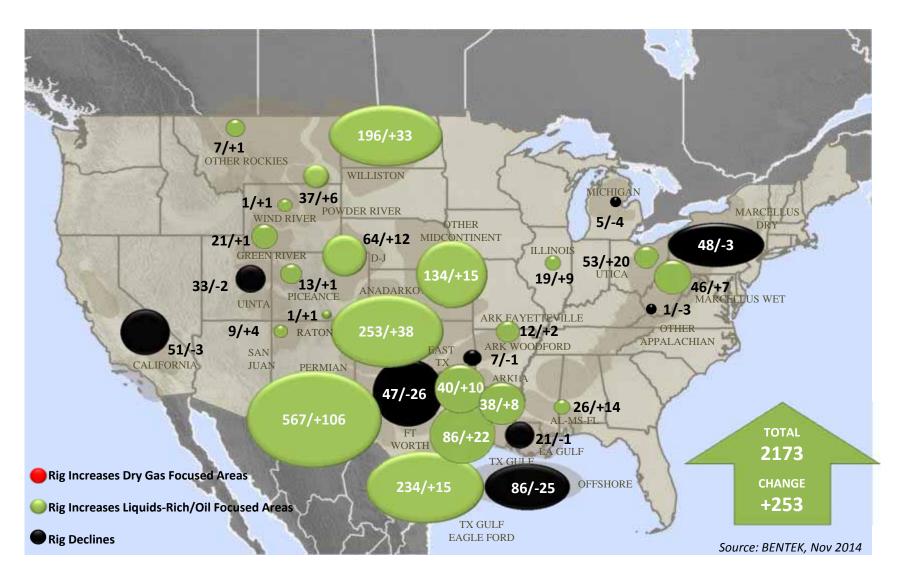


Source: BENTEK Cell Model

Plays with high returns attract drilling rigs



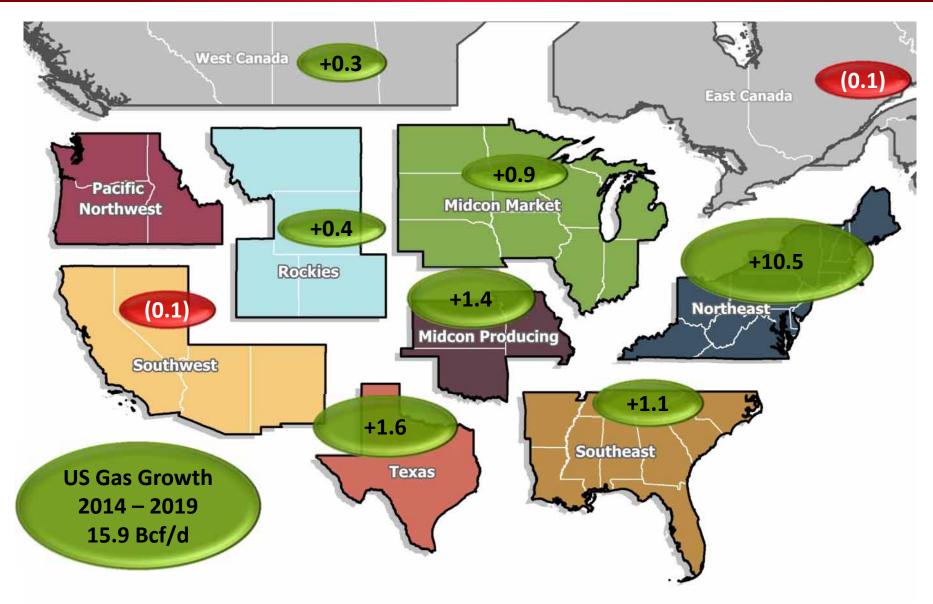




Production in the US to reach 83 Bcf/d by 2019 - driven by NE growth







Source: Bentek CellCast Oct 2014

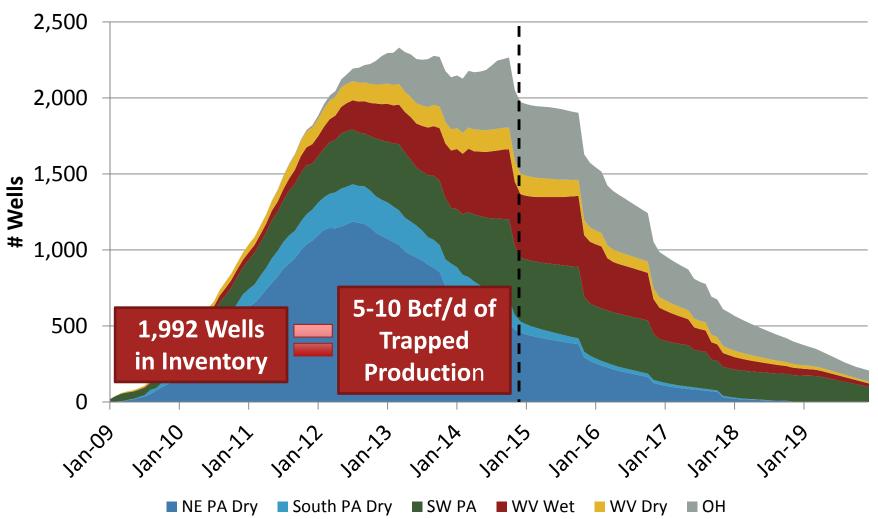
Backlog: Rely on expansion projects to relieve well backlog





Well Backlog by Production Region

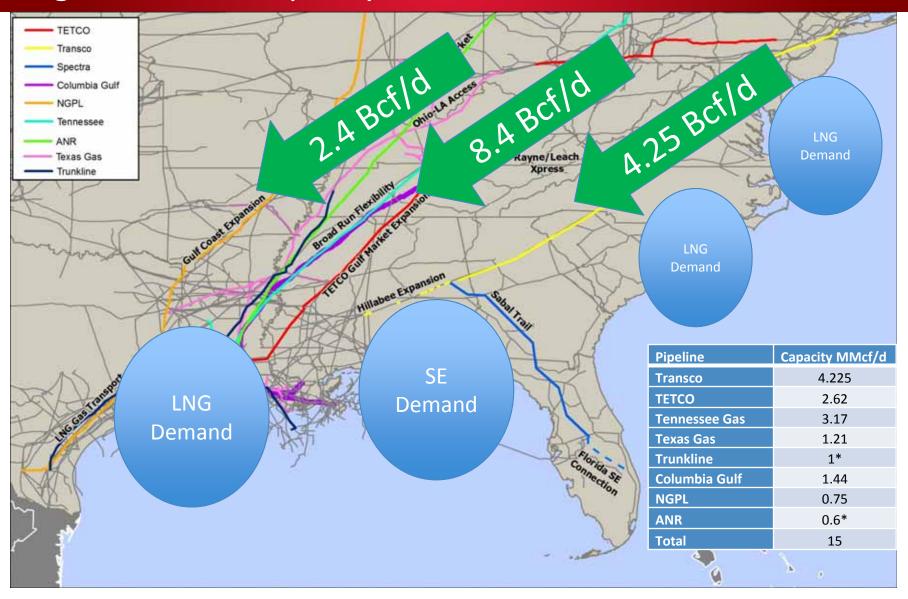
(drilled but not producing)



Southeast expansion projects bring 15 Bcf/d of capacity



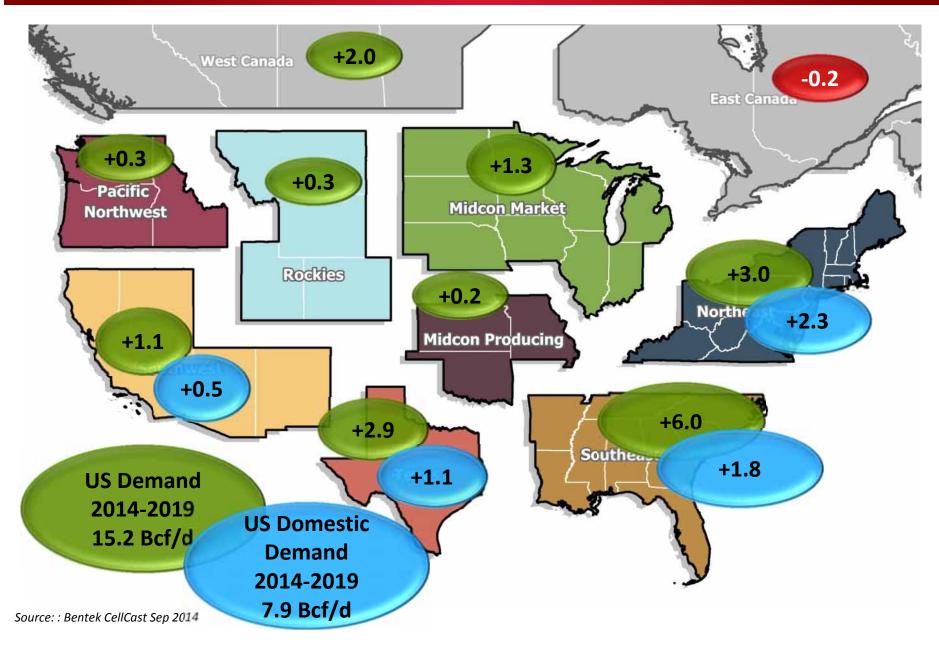




US demand growth relies on exports



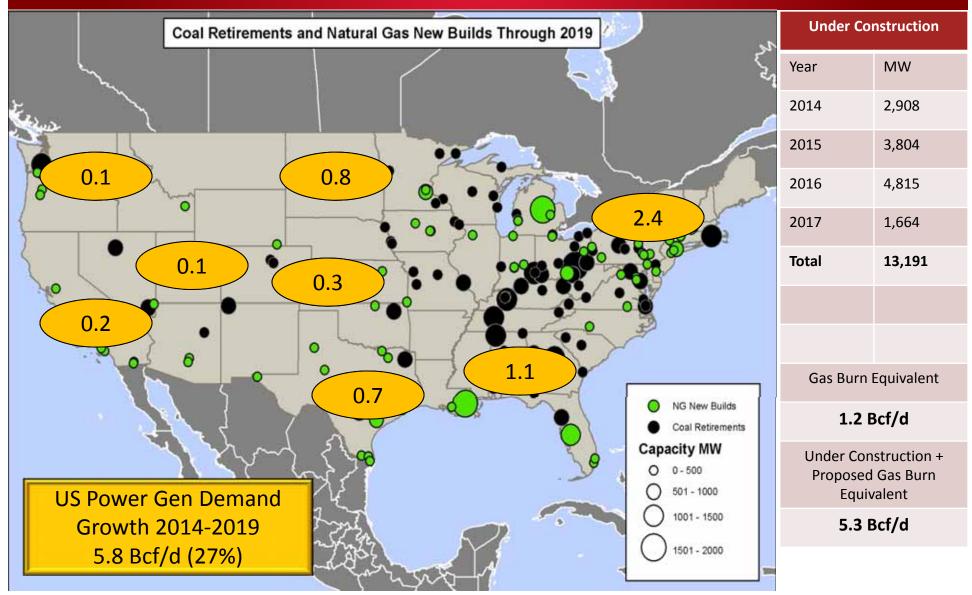




New Gas Fired Generation and Coal Retirements Lead to Significant Increase in Power Demand







Southeast leads industrial demand growth





US Industrial Sector Project Regional Demand						
	Demand (MMcf/d)					
				Other	Total	
Region	Chemical	Metals	Petroleum	Industrial	Demand	# Projects
Southeast	306	3	15	1,942	2,265	204
Texas	132	62	2	1,103	1,300	34
Midcon Market	755	314	9	-	1,078	81
Pacific Northwest	84	-	-	444	528	6
Rockies	20	-	56	265	341	11
Northeast	11	2	4	220	238	88
Midcon Producing	92	-	2	6	100	23
Southwest	-	-	-		-	4
Total US	1,401	382	87	3,980	5,851	451

Projects from Jan 2014 through 2021

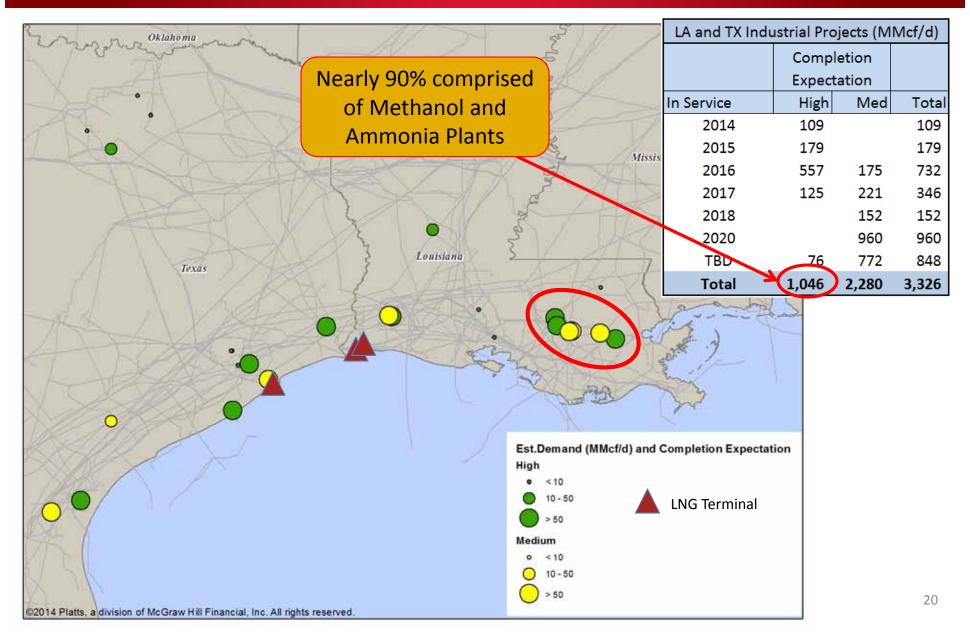
2014-2019 2.1 Bcf/d



High concentration of projects on gulf coast



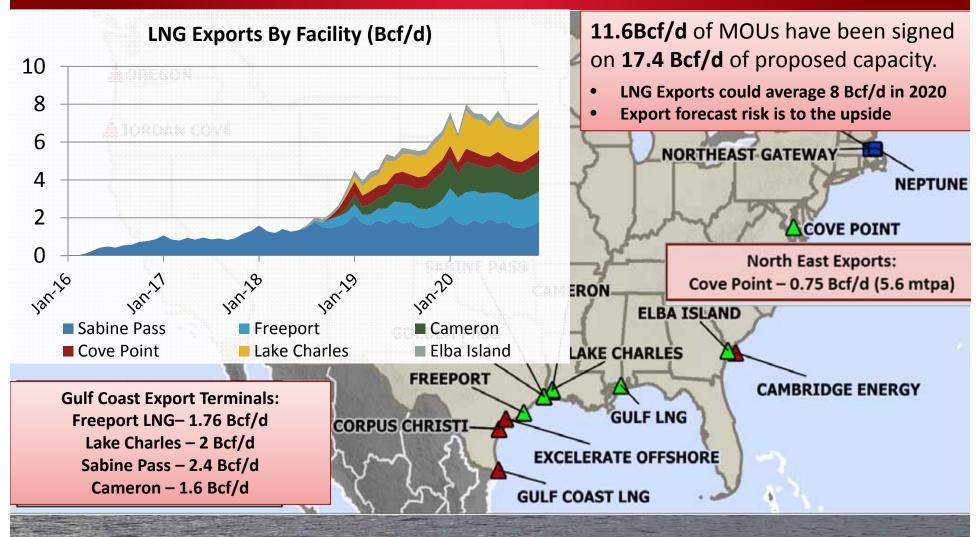




US LNG exports hit 7 Bcf/d by 2019 and 8 Bcf/d by 2020



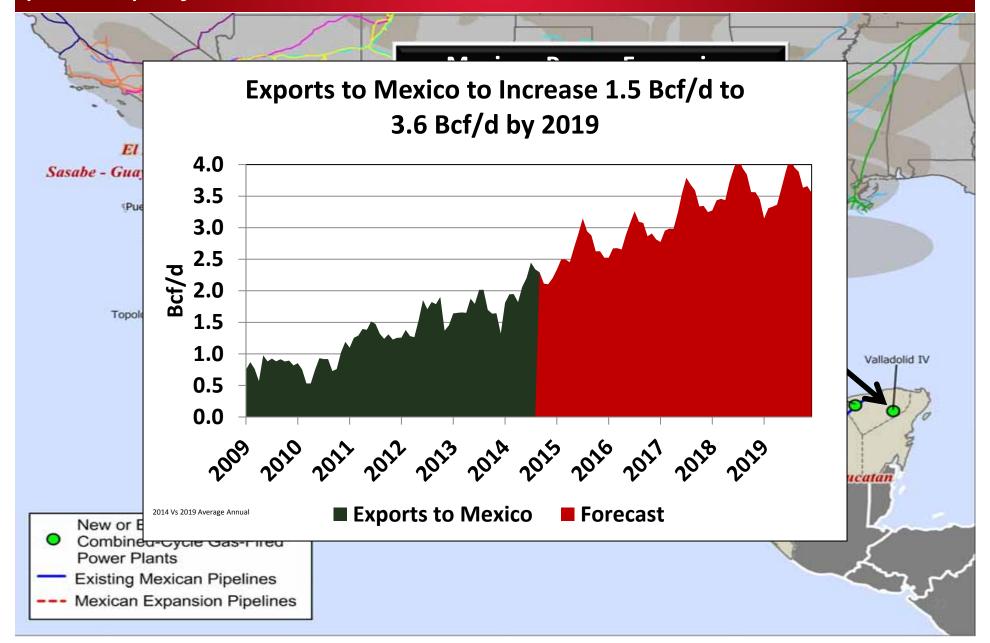




Mexico plans more than 40 Gas-fired power projects



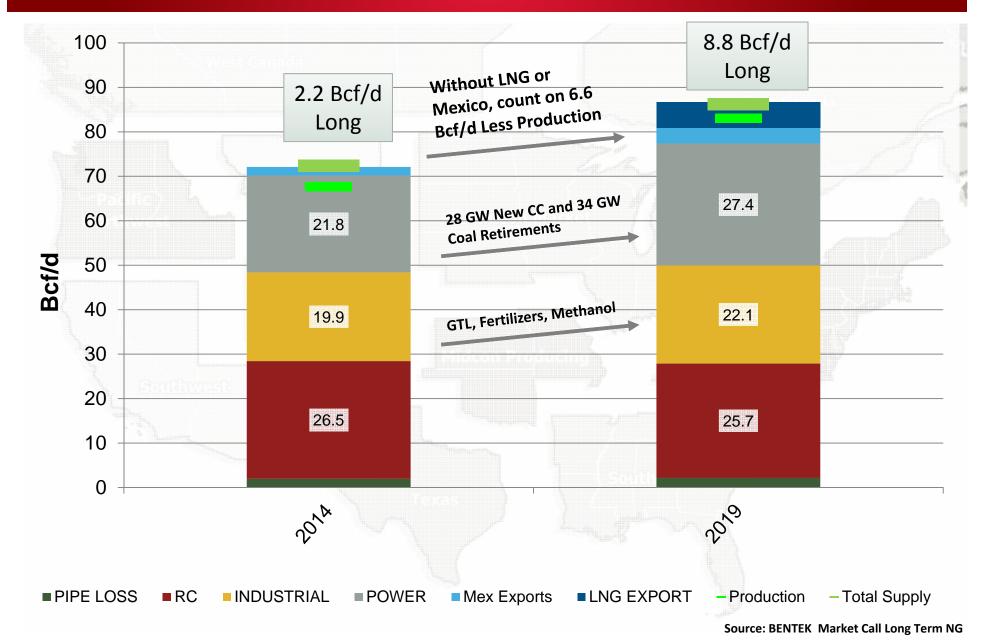




Growth in power burn critical as well as with LNG and Mexican exports to balance production forecast





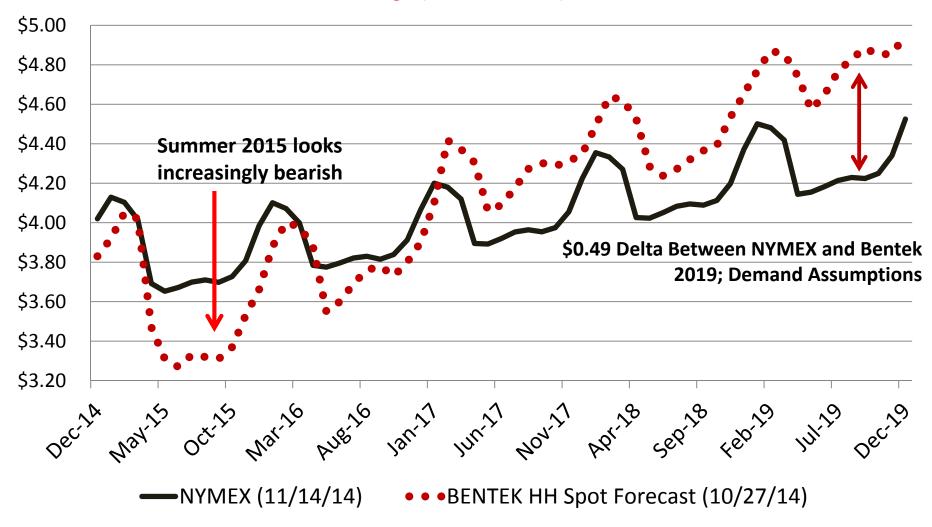


NYMEX Forward Curve Expectations





\$4.16 Bentek Average (\$4.04 NYMEX) Thru Dec 2019



Source: BENTEK Market Call Short/Long Term, NYMEX

Biggest Risk To Production Scenerio



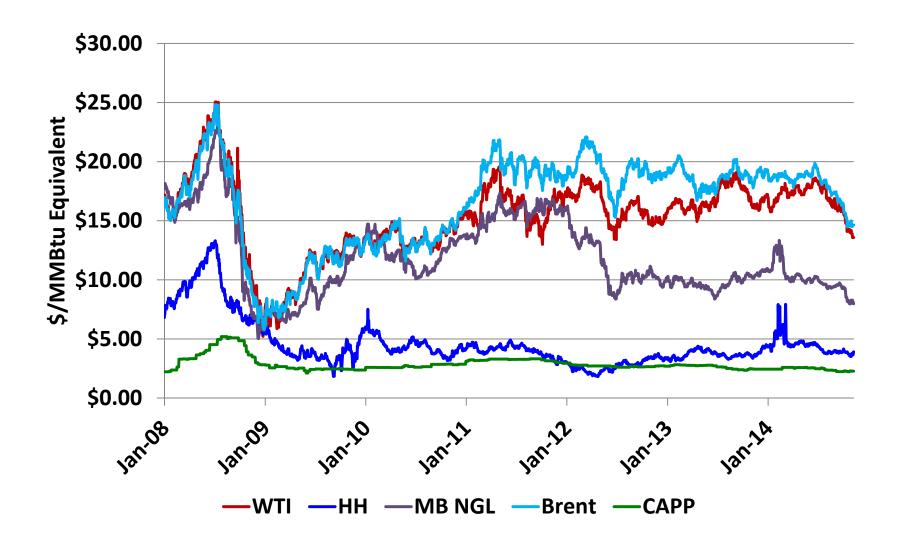




Gas, oil and NGL price comparison: MMBTU equivalent





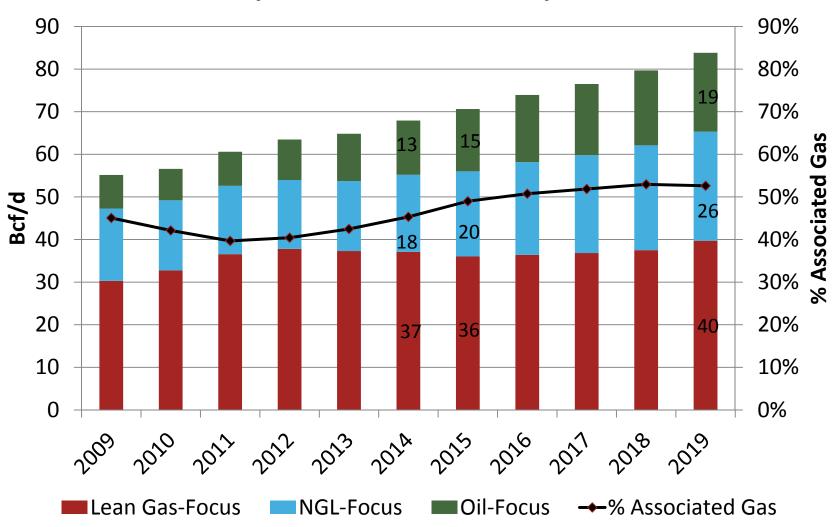


Associated gas production accounts for 45% of current supply





Bentek Dry Natural Gas Forecast by Basin Focus

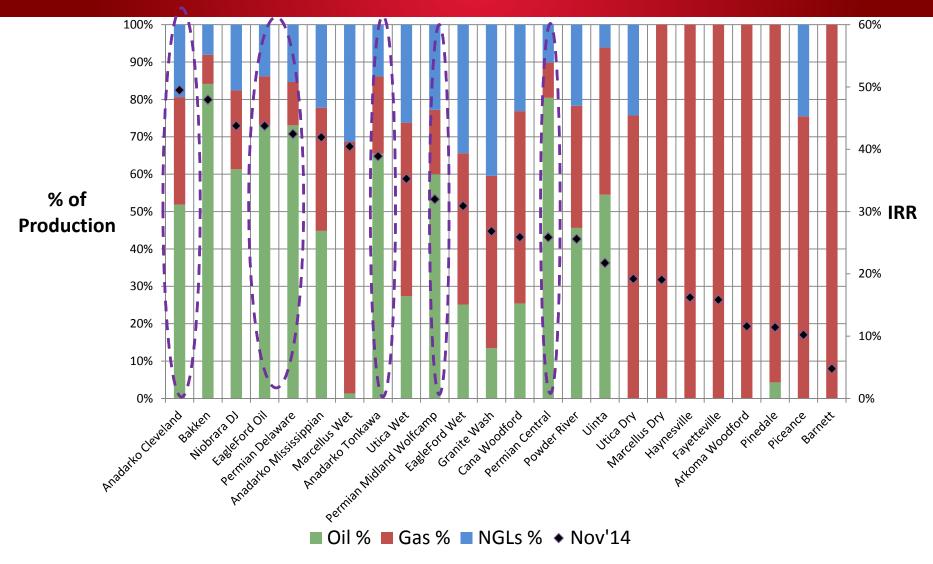


Oil-weighted production tilts play economics –





Anadarko & Perm forecast to yield 7 Bcf/d associated gas



Nov 2014 Price Assumptions: Gas = 12 month forward average curve for each regional pricing point (range \$2.77 - \$4.02/Mcf)

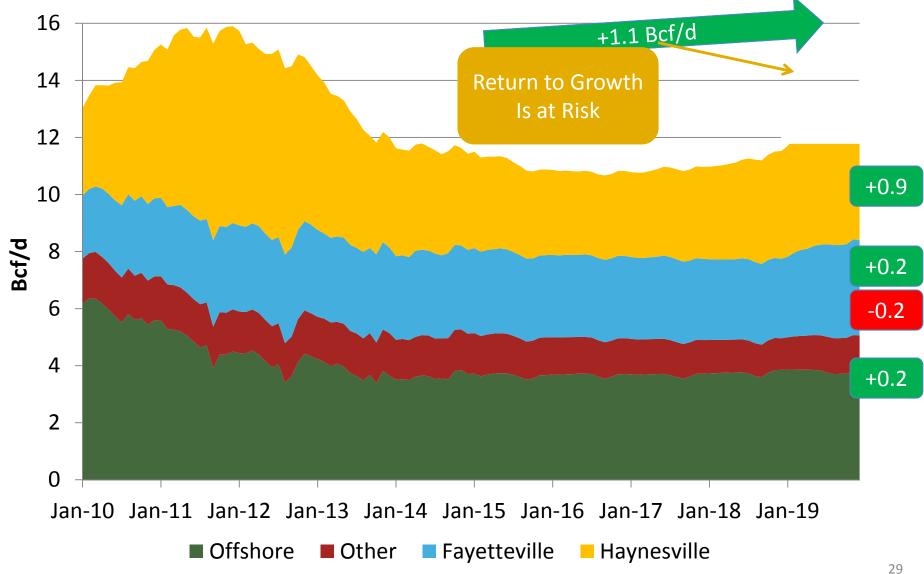
Oil = 12 month forward average WTI +/- differential (range \$62.89 - \$83.80barrel)

NGLs = weighted average \$/barrel , 12-mo forward average Mt. Belvieu prices (range \$28.71 - \$40.02/barrel)

Southeast production forecast remains at risk needs sustained higher prices





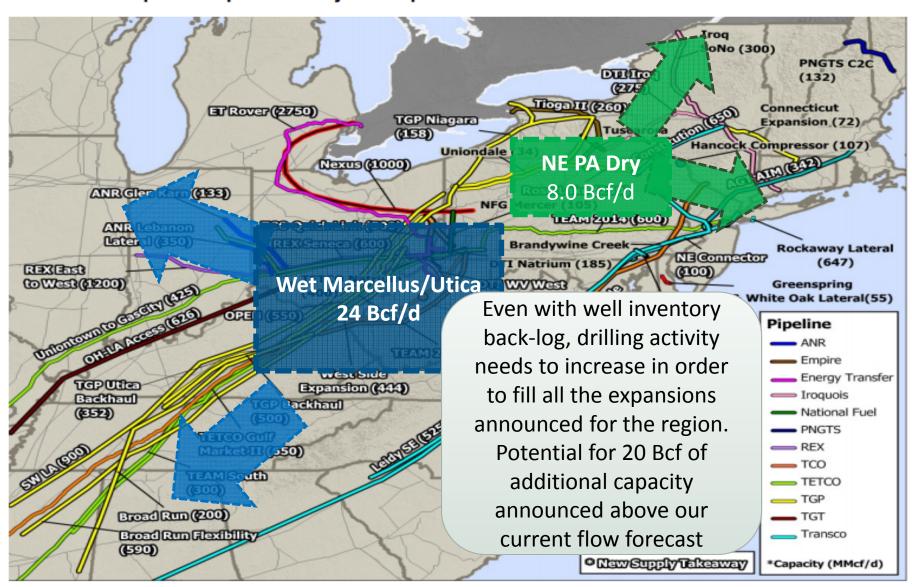


More than ~41 Bcf/d of announced capacity expansions in the Northeast by 2019; Only 32 Bcf/d will provide takeaway for production





2014-2017 Pipeline Expansion Projects Map



Key Takeaways





- Year on year production growth coupled with weather are key to determining the storage situation
- North American production growth continues to shape market; breaking traditional flow patterns and pricing relationships
- In current price environment drilling economics favor wet plays with NGLs or Oil over dry Natural Gas plays
- Supply is demand constrained new North American gas production exceeds domestic demand growth in forecast; exports (LNG + Mexico) required to balance market
- Long term prices of NG, NGLs and Crude may help determine where production growth comes from and how proposed pipeline infrastructure may be builtout





Thank You

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